

## CURRICULUM VITAE: BENJAMIN PETER HORTON

Institute of Marine and Coastal Science, Rutgers, University, 71 Dudley Road, New Brunswick, NJ, 08901-8525, Tel: (848)-932-3430; E-mail: bphorton@marine.rutgers.edu.

### EDUCATION

- 1994 – 1998: PhD in Geography, University of Durham, UK.  
1989 – 1992: BA Honors in Geography, University of Liverpool, UK.

### EMPLOYMENT HISTORY

- 2013 –: Professor, Institute of Marine and Coastal Sciences, Rutgers University, USA.  
2013 –: Visiting Professor, Division of Earth Sciences and Earth Observatory of Singapore, Nanyang Technological University, Singapore.  
2004 – 2013: Associate and Assistant Professor, Department of Earth and Environmental Science, University of Pennsylvania, USA.  
1998 – 2004: Lecturer in Geography and Postdoctoral Research Associate, Environmental Research Centre, Department of Geography, University of Durham, UK.

### HONORS AND AWARDS

- Fellow of the *Geological Society of America* (2013).
- Fellow of the *University of Pennsylvania* (2012).
- Medal for Research Excellence by the Commanding General of the North Atlantic Division of the *United States Army Corps of Engineers* (USACE) (2010).
- *Geological Society of America's* The W. Storrs Cole Memorial Research Award for contributions to micropaleontology (2007).
- Honorary Research Fellow, Department of Geography, *University of Durham*, UK (2004).
- The *Linnean Society* (UK) Award for contributions to biological diversity and evolution (2004).
- The *Higher Education Funding Council for England* Excellence in Teaching Award (2003).
- *Menzies Australian Bicentennial Award* for promoting scholarship, intellectual links, and mutual awareness and understanding between the United Kingdom and Australia (2001).

### COMMITTEES

- Contributing Author (CA) to the *Intergovernmental Panel on Climate Change* (IPCC) 5<sup>th</sup> Assessment Report (5AR) Working Group I and Expert Reviewer for Working Group III (2011-2013).
- Committee member of the *National Research Council*, USA for Sea Level Rise in California, Oregon, and Washington (2011-2012).
- Member of the *PALSEA* (PALeo-constraints on SEA-level rise) steering committee (2010-2013).
- Project leader of *International Geoscience Programme* (IGCP) 588 'Preparing for coastal change: A detailed process-response framework for coastal change at different timescales' (2010-2014).
- Scientific advisor to *The Future Ocean* research of the German Research Foundation (2010-2014).
- Guest Editor of a *Quaternary Science Reviews* Special Publication: Land Ocean Interactions (2009).

- Associate Editor of *Journal of Foraminiferal Research* (2008-present).
- Joint Chair of *American Quaternary Association* (AMQUA) Biennial Meeting 'Quaternary Ice Sheet-Ocean Interactions and Landscape Responses' (2008).
- Member of the Review Panel for the Helmholtz Program *Geosystem: the changing Earth* (2009-2013).
- Invited convener of the *Geological Society of America's Pardee Keynote Symposia* Holocene Sea-level Change in North America: A Post-Katrina Assessment (2006).

### SCHOLARLY OR PROFESSIONAL SOCIETIES

American Geophysical Union, American Quaternary Association, Geological Society of America, Cushman Foundation, Quaternary Research Association, Linnean Society, British Ecological Society and Micropaleontological Society.

### MAIN ACHIEVEMENTS

- Published over 130 articles in peer reviewed journals, including *Science*, *Proceedings of the National Academy of Sciences*, *Nature Geoscience* and *Geology*.
- Presented over 100 invited lectures and seminars to institutions, international conferences and workshops.
- Supervisor to 15 students to the degree of PhD and 5 postdoctoral scientists, of which 9 occupy academic positions or managerial research posts in industry.
- Uninterrupted external support of research program from 2004 to 2013, which totals in excess of \$3.6 million, including twelve National Science Foundation awards.
- Developed a new quantitative approach to reconstruct former sea-level changes.
- Established the Holocene sea-level database for the Atlantic and Pacific coasts of the United States.

### DEPARTMENT AND UNIVERSITY SERVICE

- Chair of the Faculty Search Committee for a Full/Associate Professor
- Convener of the Department of Earth and Environmental Science's Seminar Series.
- Member of the Department of Earth and Environmental Science's Graduate Committee.
- Member of the Faculty Selection Committee for three successful Assistant Professor searches to the Department of Earth and Environmental Science.
- Mentor to Dr Irina Marinov, Lecturer, Department of Earth and Environmental Science.
- Presentations for the Penn Science Café and the School of Arts and Science 60-Second Lectures.

### OUTREACH ACTIVITIES

- Principal investigator of an Earthwatch Student Challenge Awards Program (SCAP) for high school students (2007-2011).
- Public lectures to the Presbyterian Church, Penn Alumni Clubs, U.S. Army Corps of Engineers, U.S. Oceanographer of the Navy and Junior Colleges in the US and Singapore, and appearances on national and local television and radio.
- Harrison College Faculty Fellow, University of Pennsylvania (2004-2007) in residence full-time with 850 students and College Tutor.

- Hatfield College, University of Durham (1999-2003), UK with 300 students; served as an academic mentor and advisor.

### GRADUATE STUDENTS SUPERVISED

- University of Pennsylvania: Andrea Hawkes (PhD, 2008), Chris Bernhardt (PhD 2009), Andrew Kemp (PhD 2009), Simon Engelhart (PhD 2009), Candace Grand Pre (PhD 2011), Nicole Kahn (PhD in progress), Tina Dura (PhD in progress), Simin Liu (MSc 2012).
- University of Durham: Matt Brain (PhD 2006), Sarah Woodroffe (PhD 2006), Caroline Hillier (PhD 2007), Katie Thomson (PhD, 2009), Mike Hardbottle (MSc 2004), Simon Engelhart (MSc, 2005).
- Others: Andrew Parnell (PhD 2005), University of Sheffield, UK; Andrew Berkeley (PhD 2006), Manchester Metropolitan University, UK; Anthony Brooks (PhD 2007), Trinity College Dublin; Veronica Rossi (PhD 2008), University of Bologna, Italy.

### POST-DOCTORAL SCHOLARS SPONSORED

Andrew Kemp (2009-2010; 2011-2013), Simon Engelhart (2010-2013), Jessica Pilarczyk (2011 to present), Yvonne Milker (2012 to present); Caroline Hillier (2004-2005).

### EXTERNAL COMMITTEE MEMBER OR EXAMINER

Heidi Romine (PhD), Virginia Institute for Marine Science, USA; Kevin Burdette (MRes), Candace Grand Pre (MRes), Mary Metger, (MRes), East Carolina University, USA; Lucia Perez-Belmonte (PhD) Universite Bretagne Sud, France.

### MAJOR RESEARCH GRANTS

Total funds awarded to Horton from 2004-2013 is \$3,657,094

#### United States National Science Foundation

##### Current

- Sea-level rise and salt-marsh response: a paleo perspective; PI; \$113,517; 2013-2015.
- EARly-concept Grants for Exploratory Research (EAGER): Geologic evidence of tsunamis originating from the Japan Trench's southern segment; PI; \$31,970; 2013-2014.
- Subduction Zone Segmentation over Multiple Seismic Cycles, South-Central Chile; Co-PI; \$172,726; 2012-2015.
- Relative sea-level changes from near-, intermediate- and far-field locations and their implications for geophysical modeling and 20th century ice sheet-ocean interactions; PI; \$136,571; 2011-2014.

##### Previous

- Millennial-scale records of sea-level change along the Atlantic coast of the United States; PI; \$164,684; 2011-2013.
- RAPID: Connecting the historic 2011 Mississippi River flood to marsh sedimentation on the Delta; Co-PI; \$24,000; 2011-2012.
- Holocene sea-level change from the Caribbean: implications for geophysical modeling and ocean-climate interactions; Collaborator; \$39,285; 2010-2012.
- Luquillo Critical Zone Observatory; Co-PI; \$294,007; 2009-2014.
- Megathrust Paleogeodesy at the central Cascadia subduction zone; PI; \$233,086; 2009-2012.

- A Paleoseismic Record of Great Earthquakes on the Sunda Subduction Megathrust, Northern Sumatra; Co-PI; \$200,502; 2007-2012.
- Sea-level changes along the Atlantic Coast of the United States: Implications for glacial isostatic adjustment models and current rates of sea-level change; PI; \$131,019; 2007-2010.
- RAPID: Examining the evidence for a recent acceleration in the rate of sea-level rise using combined instrumental and proxy data, Morbihan Golfe, Brittany France; PI; \$10,080; 2007-2008.
- Indian Ocean Tsunami – Environmental and socio-economic impacts on the Malay-Thai Peninsula; PI; \$68,282; 2005-2006.

### Other United States funding bodies

#### Current

- United States Geological Survey. Earthquake and tsunami hazards in the eastern Aleutian Islands; PI; \$12,000; 2012-2013.
- *National Oceanographic Atmospheric Administration*. Advanced regional and decadal predictions of coastal inundation for the U.S. Atlantic and Gulf coasts; PI; \$1,503,828; 2011-2014.
- *National Aeronautics and Space Administration*. Global Sea Level in a Changing Climate: Reference Frames, Data Analysis, and Interpretation; PI; \$98,002; 2010-2012.

#### Previous

- *Department of Energy: The National Institute for Climatic Change Research*. Hurricane erosion of east coast salt marshes during the past 2500 years; PI; \$78,186; 2009-2012.
- *Earthwatch Student Challenge Awards Program*. Is Sea Level Rising? PI; \$68,271; 2007-2011.
- *United States Geological Survey*. High-resolution sea-level rise studies, Mid-Atlantic Bight, USA; PI; \$15,100; 2010-2011.
- *United States Geological Survey/North Carolina Cooperative Research Program*. Late Quaternary relative sea-level changes, Outer Banks, North Carolina; PI; \$30,000; 2005-2008.
- *United States Geological Survey*. Subduction-zone paleogeodesy at Cascadia; PI; \$25,039; 2006-2007.
- *National Oceanographic Atmospheric Administration*. Shore-Zone Dynamics in Response to Sea-level Rising North Carolina Estuaries; Co-PI; \$90,244; 2005-2008.

### Overseas funding

#### Current

- *Earth Observatory of Singapore, Nanyang Technological University, Singapore*. Paleotsunami history of northwestern Aceh Province, Sumatra, Indonesia. PI; 42,967; 2011-2014
- *British Geological Survey University Funding Initiative*. Holocene sea level change from the Thames estuary: implication for geophysical modeling and ocean-climate interactions; PI; \$55,801; 2009-2013.

#### Previous

- *Department of Environment and Conservation, New South Wales, Australia*. Wetland response to natural and anthropogenic forcing, Gwydir Wetlands, Australia; PI; \$17,680; 2007–2008.

### Other previous funding

Port Authority of New York & New Jersey, Earthquakes and associated land/sea level changes of Eastern Hokkaido, Northern Japan; University of Durham Research Foundation/Dawai Foundation award/Geological Survey of Japan; 2004 – 2007. Sea-level changes and crustal movements in Ireland; Enterprise Ireland; 2003-2006. Constraining the amplitude and timing of the mid Holocene highstand, Great Barrier Reef

Coastline, Australia; NERC; 2002-2005. Statistical Methodology for the Estimation of Former Sea Levels; EPSRC; 2002-2005. Sea-level change and coastal evolution: impacts on Wakatobi National Park, Indonesia; NERC/Operation Wallacea Ltd 2000-2005. Late Holocene paleoseismicity and associated land/sea changes in the greater Anchorage area; US Geological Survey; 2001-2003. Quaternary Environmental Change; Associazione Nazionale Addestramento Professionale, Italy; European Union; 2001- 2002.

## PUBLICATIONS

### Refereed Articles in journals (graduate students supervised/supervising are underlined)

1. Kemp, A.C., **Horton, B.P.**, Vane, C.H., Bernhardt, C.E., Corbett, D.R., Englehart, S.E., Anisfeld, S.C., Parnell, A.C., and Cahill, N. *in press*. Sea-level change during the last 2500 years in New Jersey, USA. *Quaternary Science Reviews*.
2. Miller, K.G., Kopp, R.E., **Horton, B.P.**, Browning, J.V. and Kemp, A.C. *in press*. A geological perspective on sea-level rise and impacts along the U.S. mid-Atlantic coast.
3. Nikitina, D.L., Kemp, A.C., **Horton, B.P.**, Vane, C.H., van de Plassche, O. and Engelhart, S.E. *in press*. Storm erosion during the past 2000 years along the north shore of Delaware Bay, USA. *Geomorphology*.
4. Vane, C.H., Kim, A.W., Moss-Hayes, V., Snape, C.E., Castro Diaz, M, Khan, N.S., Engelhart, S.E., and **Horton, B.P.**, *in press*. Degradation of mangrove tissues by arboreal termites (*Nasutitermes acajutlae*) and their role in the mangrove C cycle (Puerto Rico): Chemical characterization and organic matter provenance using bulk d13C, C/N, alkaline CuO oxidation-GC/MS, and solid-state 13C NMR. *Geochemistry, Geophysics, Geosystems*.
5. Engelhart, S.E., **Horton, B.P.**, Nelson, A.R., Hawkes, A.D., Witter, R.C., Wang, K., Wang, P.-L., and Vane, C.H., 2013. Validating reconstructions of upper plate deformation during Earth's greatest earthquakes, *Geology*, 41, 1067-1070.
6. Engelhart, S.E., **Horton, B.P.**, Vane, C.H., Nelson, A.R., Witter, R.C., Brody, S.R. and Hawkes, A.D., 2013. Modern salt-marsh foraminifera, flora and stable carbon isotopes of Siletz Bay, Oregon, and their application in paleoseismology. *Palaeogeography, Palaeoclimatology, Palaeoecology*. 377, 13-27.
7. Hall, G.F., Hill, D.F., **Horton, B.P.**, Engelhart, S.E., and Peltier, W.R., 2013. A high-resolution study of tides in the Delaware Bay: Past conditions and future scenarios. *Geophysical Research Letters*, 40, 338-342.
8. **Horton, B.P.**, Engelhart, S.E., Hill, D.F., Kemp, A.C., Nikitina, D., Miller, K.G., Peltier, W.R., 2013. Influence of tidal-range change and sediment compaction on Holocene relative sea-level change in New Jersey, USA. *Journal of Quaternary Science*, 28, 403-411.
9. Kemp, A.C. and **Horton, B.P.**, 2013. Contribution of relative sea-level rise to historical hurricane flooding in New York City. *Journal of Quaternary Science*, 28, 537-541.
10. Kemp, A.C., Telford, R.J., **Horton, B.P.**, Anisfeld, S.C. and Sommerfield, C.K., 2013. Reconstructing Holocene sea level using salt-marsh foraminifera and transfer functions: lessons from New Jersey, USA. *Journal of Quaternary Science*, 28-617-629.
11. Khan, N.S., **Horton, B.P.**, McKee, K.L., Jerolmack, D.J., Falcini, F., Enache, M.D. and Vane, C.H., 2013. Tracking sedimentation from the historic 2011 Mississippi River Flood in Louisiana Deltaic wetlands. *Geology*, 41, 391-394.
12. Wang, P.-L., Engelhart, S.E., Wang, K., Hawkes, A.D., **Horton, B.P.**, Nelson, A.R., Witter, R.C., 2013, Heterogeneous rupture in the Great Cascadia earthquake of 1700 inferred from coastal subsidence estimates: *Journal of Geophysical Research – Solid Earth*, 118, 2460-2473.

13. Bernhardt, C.E., **Horton, B.P.** and Stanley, J-D, 2012. Nile Delta vegetation response to Holocene climate variability. *Geology*, 40, 615-618.
14. Day, J.W., Gunn, J.D., Folan, W.J., Yáñez-Arancibia, A., and **Horton, B.P.**, 2012. Post-Glacial Coastal Margin Productivity and the Emergence of Complex Societies. *Journal of Island & Coastal Archaeology*, 7, 23-42.
15. Engelhart, S.E. and **Horton, B.P.**, 2012. Holocene sea-level database for the Atlantic coast of the United States. *Quaternary Science Reviews*, 54, 12-25.
16. Falcini, F., Khan, N.S., Macelloni, L., **Horton, B.P.**, Lutken, C. B., McKee, L., Santoleri, R., Colella, S., Li, C., Volpe, G., D'Emidio, M., Salusti, A. and Jerolmack, D.J., 2012. Linking the historic 2011 Mississippi River flood to coastal wetland sedimentation. *Nature Geoscience*. DOI: 10.1038/NGEO1615.
17. Grand Pre, C., **Horton, B.P.**, Kelsey, H.M., Rubin, C.M., Hawkes, A.D., Daryono, M., Rosenberg, G. and Culver, S.J. 2012. Stratigraphic evidence for an early Holocene earthquake in Aceh, Indonesia. *Quaternary Science Reviews*, 54, 142-151.
18. Hawkes, A.D. and **Horton, B.P.**, 2012. Sedimentary and foraminiferal record of storm deposits from Hurricane Ike, Galveston and San Luis islands, Texas, *Geomorphology*, 171, 180-189.
19. Kemp, A.C., **Horton, B.P.**, Vann, D.R., Engelhart, S.E., Grand Pre, C., Vane, C.H., Nikitina, D., and Anisfeld, S.C., 2012. Quantitative vertical zonation of salt-marsh foraminifera for reconstructing former sea level; an example from New Jersey, USA. *Quaternary Science Reviews*, 54, 26-39.
20. Kemp, A.C., Sommerfield, C.K., Vane, C.H., **Horton, B.P.**, Chenery, S., Anisfeld, S., and Nikitina, D. 2012. Use of Lead isotopes for developing chronologies in recent salt-marsh sediments. *Quaternary Geochronology*, 12, 40-49.
21. Kemp, A.C., Vane, C.H., **Horton, B.P.**, Engelhart, S.E., Anisfeld, S.C. and Nikitina, D., 2012. Application of stable carbon isotopes for reconstructing salt-marsh floral zones and relative sea level, New Jersey, USA. *Journal of Quaternary Science*, 27, 404–414.
22. Pilarczyk, J.E., **Horton, B.P.**, Witter, R.C., Vane, C.H., Chagué-Goff, C. and Goff, J., 2012. Sedimentary and foraminiferal evidence of the 2011 Tōhoku-oki tsunami on the Sendai coastal plain, Japan. *Sedimentology*, 282, 78-89.
23. Switzer, A.D., Sloss, C.R., **Horton, B.P.** and Zong, Y., 2012. Preparing for coastal change. *Quaternary Science Reviews*, 54, 1-3.
24. Vermeer, M., Rahmstorf, S., Kemp, A. and **Horton, B.**, 2012. On the differences between two semi-empirical sea-level models for the last two millennia. *Climate of the Past*, 8, 3551–3581.
25. Wilson, B. and **Horton, B.P.**, 2012. Determining carrying capacity from foraminiferal time series. *Journal of Micropaleontology*, 31:111-119
26. Bernhardt, C.E., Stanley, J-D. and **Horton, B.P.**, 2011. Wetland Vegetation in Manzala Lagoon, Nile Delta Coast, Egypt: Rapid Responses of Pollen to Altered Nile Hydrology and Land Use. *Journal of Coastal Research*, 27, 731 – 737.
27. Brain, M.J., Long, A.J., Petley, D.N., **Horton, B.P.**, and Allison, R.J., 2011. Compression behaviour of minerogenic low energy intertidal sediments, *Sedimentary Geology*, 233, 28-41.
28. Culver, S.J., Farrell, K., Mallinson, D.J., **Horton, B.P.**, Willard, D.A., Thieler, E.R., Riggs, S.R., Thieler, E.R., Wehmler, J.F., Parham, P., Snyder, S.W., and Hillier, C., 2011. Evolution of Quaternary paleoenvironments of the Central Albemarle Embayment, North Carolina, U.S.A. *Palaeogeography, Palaeoecology, Palaeoclimatology*, 305, 227–249.



29. Dura, T., Rubin, C.M., Kelsey, H.M., **Horton, B.P.**, Hawkes, A.D., Grand Pre, C., Daryono, M., Ladinsky, T., Vane, C.H. and Bradley, S. 2011. Preservation of Holocene Earthquakes, Sungai Pinang, Western Sumatra. *Journal of Geophysical Research - Solid Earth*, 116, B11306, doi:10.1029/2011JB008205.
30. Engelhart, S.E., **Horton, B.P.** and Kemp, A.C., 2011. Holocene Sea Level Changes along the United States' Atlantic Coast. *Oceanography* 24, 70–79.
31. Engelhart, S.E., Peltier, W.R., and **Horton, B.P.**, 2011. Holocene relative sea-level changes and glacial isostatic adjustment of the U.S. Atlantic coast. *Geology* 39, 751-754.
32. Gehrels, W.R., **Horton, B.P.**, Kemp, A.C. and Silvan, D., 2011. Sivan Sea-level records of the last 2000 years hold the key to understanding contemporary and future sea-level change. *EOS, Transactions, American Geophysical Union* 92, 289-29.
33. Grand Pre, C., Culver, S., Mallinson, D., Farrell, K., Corbett, R., **Horton, B.P.**, Hillier, C., Riggs, S., Snyder, S. and Buzas, M., 2011. Rapid Holocene Coastal Change Revealed by High Resolution Micropaleontological Analysis, Pamlico Sound, North Carolina, USA. *Quaternary Research*, 76, 319-334.
34. Hawkes, A.D., **Horton, B.P.** and Nelson, A. R., 2011. Coastal subsidence in Oregon, USA, during the giant Cascadia Earthquake of AD 1700. *Quaternary Science Reviews*, 30, 364-376.
35. Hill, D.F., Griffiths, S.D., Peltier, W.R., **Horton, B.P.** and Törnqvist, T.E., 2011. High-resolution numerical modeling of tides in the western Atlantic, Gulf of Mexico, and Caribbean Sea during the Holocene, *Journal of Geophysical Research*, 116, C10014, doi:10.1029/2010JC006896.
36. **Horton, B.P.**, Sawai, Y., Hawkes, A.D. and Witter, R.C. 2011. Sedimentology and paleontology of a tsunami deposit accompanying the great Chilean earthquake of February 2010. *Marine Micropaleontology*, 79, 132–138.
37. Kemp, A.C., Buzas, M.A., **Horton, B.P.**, and Culver, S.J., 2011. Influence of patchiness on modern salt-marsh foraminifera used in sea-level studies (North Carolina, USA). *Journal of Foraminiferal Research*, 41, 114-123.
38. Kemp, A.C., **Horton, B.P.**, Donnelly, J.P., Mann, M.E., Vermeer, M. and Rahmstorf, S., 2011. Climate related sea-level variations over the past two millennia. *Proceedings of the National Academy of Sciences*, 108, 11017-11022.
39. Kemp, A.C., **Horton, B.P.**, Donnelly, J.P., Mann, M.E., Vermeer, M. and Rahmstorf, S., 2011. Reply to Grinsted et al.: Estimating land subsidence in North Carolina. *Proceedings of the National Academy of Sciences*, 108, 11017-11022.
40. Rossi, V., **Horton, B.P.**, Corbett, D.R., Leorri, E., Perez-Belmonte, L. and Douglas, B.C., 2011. The application of foraminifera to reconstruct the rate of 20<sup>th</sup> century sea-level rise, Morbihan Golfe, Brittany France. *Quaternary Research*, 75, 24-35.
41. Hawkes, A.D., **Horton, B.P.**, Nelson, A.R., and Hill, D. F., 2010. The application of intertidal foraminifera to reconstruct coastal subsidence during the giant Cascadia earthquake of AD 1700 in Oregon, USA. *Quaternary International*, 221, 116–140.
42. Kemp, A.C., Vane, C.H., **Horton, B.P.**, and Culver, S.J., 2010. Stable carbon isotopes as potential sea-level indicators in salt marshes, North Carolina, USA. *Holocene*, 20, 623–636.
43. Leorri, E., Gehrels, W.R., **Horton, B.P.**, Fatela, F. and Cearreta, A., 2010. Distribution of foraminifera in salt marshes along the Atlantic coast of SW Europe: tools to reconstruct past sea-level variations. *Quaternary International*, 221, 104–115.
44. Pruitt, R.J., Culver, S.J., Buzas, M. A., Corbett, D.R., **Horton, B.P.** and Mallinson, D. J., 2010. Modern foraminiferal distribution and recent environmental change in Core Sound, North Carolina, USA. *Journal of Foraminiferal Research*, 40, 344-365.

45. Berkeley, A., Perry, C.T., Smithers, S.T., **Horton, B.P.**, Cundy, A.B., 2009. Foraminiferal biofacies across mangrove-mudflat environments at Cocoa Creek, north Queensland, Australia. *Marine Geology*, 263, 64-86.
46. Engelhart, S.E., **Horton, B.P.**, Douglas, B.C., Peltier, W.R., and Tornqvist, T.E., 2009. Spatial Variability of Late Holocene and 20th Century Sea Level Rise along the US Atlantic Coast. *Geology*, 37, 1115-1118.
47. **Horton, B.P.**, and Shennan, I., 2009. Compaction of Holocene strata and the implications for relative sea-level change. *Geology*, 37, 1083-1086.
48. **Horton, B.P.**, Long, A.J., and Donnelly, J.P., 2009. Quaternary Ice Sheet-Ocean Interactions and Landscape Responses. *Quaternary Science Reviews*, 28, 1570-1572.
49. **Horton, B.P.**, Peltier, W.R., Culver, S.J., Drummond, R., Engelhart, S.E., Kemp, A.C., Mallinson, D., Thieler, E.R., Riggs, S.R., Ames, D.V. and Thomson, K.H., 2009. Holocene sea-level changes along the North Carolina Coastline and their implications for glacial isostatic adjustment models. *Quaternary Science Reviews*, 28, 1725-1736.
50. **Horton, B.P.**, Rossi, V., Hawkes, A.D., 2009. The Sedimentary Record of the 2005 Hurricane Season along the Gulf Coast, *Quaternary International*, 195, 15-30.
51. Kemp, A.C., **Horton, B.P.**, Corbett, R., Culver, S.J., Edwards, R.J. and van de Plassche, O., 2009. The relative utility of foraminifera and diatoms for reconstructing late Holocene sea-level change in North Carolina, USA. *Quaternary Research*, 71, 9–21.
52. Kemp, A.C., **Horton, B.P.**, and Culver, S.J., 2009. Distribution of modern salt-marsh foraminifera in the Albemarle – Pamlico Estuarine System of North Carolina, USA: Implications for sea-level research. *Marine Micropaleontology*, 72, 222-238.
53. Kemp, A.C., **Horton, B.P.**, Culver, S.J., Corbett, D.R., van de Plassche, O., Gehrels, W.R. and Douglas, B.C., 2009. The timing and magnitude of recent accelerated sea-level rise (North Carolina, USA). *Geology*, 37, 1035-1038.
54. Leorri, E., Martin, R.E. and **Horton B.P.**, 2009. Field experiments on bioturbation in salt marshes (Bombay Hook National Wildlife Refuge, Smyrna, DE, USA): Implications for sea-level studies. *Journal of Quaternary Science*, 24, 139-149.
55. Miller, K.G., Sugarman, P.J., Browning, J.V., **Horton, B.P.**, Stanley, A., Kahn, A., Uptegrove, J. and Aucott, M., 2009. Sea-level rise in New Jersey over the past 5000 years: Implications to Anthropogenic Change. *Global and Planetary Change*, 66, 10-18.
56. Poulter, B, Feldman, R.L., Brinson, M.M., **Horton, B.P.**, Orbach, M.K., Pearsall, S.H., Reyes, E., Riggs, S.R. and Whitehead, J., 2009. Sea Level Rise Research and Dialogue in North Carolina: Creating Windows for Policy Change. *Ocean & Coastal Management*, 52, 147-153.
57. Rossi, V., and **Horton, B.P.**, 2009. The application of a subtidal foraminifera-based transfer function to reconstruct Holocene paleobathymetry of the Po Delta, Northern Adriatic Sea. *Journal of Foraminiferal Research*, 39, 180-190.
58. Vane, C.H., Harrison, I., Kim, A.W., Moss-Hayes, V., Vickers, B.P., **Horton, B.P.**, 2009. Status of Organic Pollutants in Surface Sediments of Barnegat Bay-Little Egg Harbor Estuary, New Jersey, USA. *Marine Pollution Bulletin*, 56 1802-1814.
59. Berkeley, A., Perry, C.T., Smithers S.G. and **Horton, B.P.**, 2008. The spatial and vertical distribution of living (stained) benthic foraminifera from a tropical, intertidal environment, north Queensland, Australia. *Marine Micropaleontology*, 69, 240–261.



60. Brooks, A.J., Bradley, S.L., Edwards, R.J., Milne, G.A., Shennan, I. and **Horton, B.P.**, 2008. Post-Glacial relative sea-level observations from Ireland and their role in glacial rebound modelling. *Journal of Quaternary Science*, 23, 175-192.
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#### Conference abstracts (first author only); Invited \*

1. **Horton, B.P.**, 2013. Millennial and centennial sea-level changes in Florida, USA. DIMACS Workshop. 17-18 January 2013.\*
2. **Horton, B.P.**, Kemp, A., Hawkes, A., and Donnelly, J., 2012. Sea-level change along the Atlantic coast of the United States. AGU Fall Meeting 2012, 3-7 December, San Francisco.\*
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31. **Horton, B.P.**, Kemp, A.C., and Engelhart S.E., 2010. Holocene Sea-level Changes along the Atlantic Coast of the United States. Lecture Series, Columbia University, March 5, 2010.\*
32. **Horton, B.P.**, Kemp, A.C., and Engelhart S.E., 2010. Holocene Sea-level Changes along the Atlantic Coast of the United States. Lecture Series, Boston University, February 17, 2010.\*
33. **Horton, B.P.**, 2010. Sea Level is Rising Along U.S. Atlantic Coast. Institute for Environmental Studies. February 24, 2010.\*
34. **Horton, B.P.**, 2010. Holocene Sea-level Changes along the Atlantic Coast of the United States. Lecture Series, Pennsylvania State University, January 20, 2010.\*
35. **Horton, B.P.**, 2010. Sea-level changes: past present and future. DENR/DCM Sea Level Rise Science Forum, Raleigh, USA, 14-15 January 2010.\*
36. **Horton, B.P.**, 2010. Sea-level changes for the last 2000 years: paleo-perspectives on decadal variability. Predicting. The Climate of the Coming Decades, RSMAS, Miami, USA, 11-14 January 2010.\*
37. **Horton, B.P.**, Engelhart, Törnqvist, T.E., Hill, D. and Peltier, W.R., 2010. Holocene Sea-level Changes along the Atlantic Coast of the United States. Quaternary Research Association Annual Discussion Meeting: Sea-level Changes: the Science of a Changing World, Durham City, UK, 5-8 January 2010.
38. **Horton, B.P.**, 2009. Holocene Sea-level Changes along the Atlantic Coast of the United States. Lecture Series, Temple University, December 4, 2009.\*

39. **Horton, B.P.**, Engelhart, S.E., Kemp, A.C., Törnqvist, T.E., González, J., Yu, S., Hu, P., Peltier, W.R., Shennan, I., Thieler, R., van de Plassche, O., 2009. Sea-level Changes along the Atlantic Coast of the United States: Implications for Glacial Isostatic Adjustment models and current rates of sea-level change. IGCP Project 495, Quaternary Land-Ocean Interactions: Driving Mechanisms and Coastal Responses, South Carolina, 25-28 October 2009.
40. **Horton, B.P.** and Grand-Pre, C., 2009. Evidence for early Holocene precursors to the 2004 Andaman-Aceh Earthquake, IGCP Project 495, Quaternary Land-Ocean Interactions: Driving Mechanisms and Coastal Responses, South Carolina, 25-28 October 2009.
41. **Horton, B.P.**, and Shennan, I., 2009. Compaction of Holocene strata and the implications for relative sea-level change. 2008 GSA Portland Annual Meeting, 18-21 October 2009.
42. **Horton, B.P.** and Kemp, A.C., 2009. Reconstructions of Relative Sea-level Variations over the Last Two Millennia, North Carolina. Northeast Beaches Conference and International Erosion Control Association, WHOI, 21-23 September, 2009.\*
43. **Horton, B.P.** and Grand-Pre, C., 2009. Evidence for early Holocene precursors to the 2004 Andaman-Aceh Earthquake, Asia Oceania Geosciences Society (AOGS) Annual Meeting, 11-15 August, 2009.\*
44. **Horton, B.P.**, Hawkes, A.D. and Nelson, A.R., 2009. Late Holocene coseismic deformation at the Cascadia subduction zone, Oregon, USA. Asia Oceania Geosciences Society (AOGS) Annual Meeting, 11-15 August, 2009.
45. **Horton, B.P.**, 2009. Sea level changes of the last millennia. Lecture Series, The University of Hong Kong, May 24, 2009.\*
46. **Horton, B.P.**, 2009. Sea level changes of the last millennia. Lecture Series, US Army Corps of Engineers, April 3, 2009.\*
47. **Horton, B.P.**, Peltier, W.R., Culver, S.J., Drummond, R., Engelhart, S.E., Kemp, A.C., Mallinson, D., Thieler, E.R., Riggs, S.R., Ames, D.V. and Thomson, K.H., 2008. Holocene sea-level changes along the North Carolina Coastline and their implications for glacial isostatic adjustment models. 2008 AGU Fall Meeting, 15-19 December, 2008.
48. **Horton, B.P.**, Engelhart, S.E., Douglas, B.C., Peltier, W.R. and Törnqvist, T.E. 2008. A Role for Greenland Mass Loss in 20th Century US Atlantic Coast Sea-Level Rise? SSPEED, Rice University 29-31 October, 2008.\*
49. **Horton, B.P.**, Peltier, W.R., Culver, S.J., Drummond, R., Engelhart, S.E., Kemp, A.C., Mallinson, D., Thieler, E.R., Riggs, S.R., Ames, D.V. and Thomson, K.H., 2008. Holocene sea-level changes and their implications for glacial isostatic adjustment models. 2008 GSA Denver Annual Meeting, 28-31 October 2008.
50. **Horton, B.P.**, 2008. Holocene sea-level records: driving mechanisms and coastal responses. Lecture Series, Princeton University, April 17, 2008.\*
51. **Horton, B.P.**, 2008. Holocene sea-level records: driving mechanisms and coastal responses. Lecture Series, West Chester University of Pennsylvania, April 15, 2008.\*
52. **Horton, B.P.**, 2008. Holocene sea-level records: driving mechanisms and coastal responses. Lecture Series, University of South Carolina, February 15, 2008.\*
53. **Horton, B.P.** and Hawkes, A. H., 2007. Foraminiferal Assemblage Zones of Oregon Salt-Marshes: Implications for Studies of Relative Sea-Level Change. 2007 AGU Fall Meeting, 10-14 December, 2007.
54. **Horton, B.P.** and Kemp, A. 2007. Examining the evidence for a recent acceleration in the rate of sea-level rise using combined instrumental and proxy data, North Carolina, USA. 2007 AGU Fall Meeting, 10-14 December, 2007.

55. **Horton, B.P.**, 2007. What have we learnt from Holocene sea-level records? Estuarine Research Foundation Annual Meeting, Providence, 4-9 November 2007.\*
56. **Horton, B.P.**, and Kemp, A. 2007. Onset of rapid sea-level rise. Estuarine Research Foundation Annual Meeting,, Providence, 4-9 November 2007.
57. **Horton, B.P.**, Engelhart, S. E., Hill, D., Törnqvist, T., Peltier, R., Thieler, R., Anderson, C., van de Plassche, O. and Shennan, I., 2007. Sea-level changes along the Atlantic Coast of the United States: Implications for glacial isostatic adjustment models and current rates of sea-level change. 2007 GSA Denver Annual Meeting, 28–31 October 2007.
58. **Horton, B.P.**, 2007. Relative sea-level records: driving mechanisms and coastal responses. Lecture Series, University of Delaware, October 15, 2007.\*
59. **Horton, B.P.**, 2007. Relative sea-level records: driving mechanisms and coastal responses. Philadelphia Geological Society Lecture Series, September 25, 2007.\*
60. **Horton, B.P.**, 2007. Relative sea-level records: driving mechanisms and coastal responses. Lecture Series, University of Virginia, September 18, 2007.\*
61. **Horton, B.P.**, Corbett, R., Edwards, R., Leorri, E., Belmonte, L., Rossi, V., 2007. Examining the evidence for a recent acceleration in the rate of sea-level rise using combined instrumental and proxy data from the Bay of Biscay. XVII INQUA Congress 2007, Cairns, Australia, 28 July - 3 August 2007.
62. **Horton, B.P.**, Rubin, C., Kelsey, H., Hawkes, A. and Grand-Pre, C., 2007. A Paleoseismic record of repeated great earthquakes on the Sunda Subduction megathrust, northern Sumatra. XVII INQUA Congress 2007, Cairns, Australia, 28 July - 3 August 2007.
63. **Horton, B.P.**, Riggs, S., Thieler, E. R., and Peltier W. R., 2007. A methodology for analyses of relative sea-level data: A case study of North Carolina. GSA Southeastern Section Annual Meeting, 29- 30 March 2007.
64. **Horton, B.P.**, 2007. The application of diatoms, foraminifera and pollen in sea-level research from active and passive coastal margins. Geological Lecture Series, Kent State University, March 16, 2007.\*
65. **Horton, B.P.**, 2007. Onset of recent rapid sea-level rise along the Atlantic seaboard of North America. Lecture Series, Rutgers Institute for Marine and Coastal Science, January 30, 2007.\*
66. **Horton, B.P.** and Hawkes, A. H., 2006. The Taphonomy of Sediments Deposited by the Indian Ocean Tsunami. 2006 AGU Fall Meeting, 11-15 December, 2006.
67. **Horton, B.P.** and Hawkes, A. H., 2006. The Taphonomy of Sediments Deposited by the Indian Ocean Tsunami. 2006 AGU Fall Meeting, 11-15 December, 2006.
68. **Horton, B.P.**, Rossi, V., Hawkes, A., and Wright, M. W., 2006. Sedimentary Record of the Landfall of Hurricane Katrina along the Gulf Coast: Implications for Paleotempestology. The Gulf Coast Association of Geological Societies & LIOGA's Gulf Coast Prospect Expo, Lafayette, LA September 25-27, 2006.
69. **Horton, B.P.**, 2006. The application of diatoms, foraminifera and pollen in sea-level research from active and passive coastal margins. Geological Lecture Series, Bryn Mawr, April 5, 2006.\*
70. **Horton, B.P.**, Boreham, S., Hillier, C., 2006. The Development and Application of a Diatom-Based Quantitative Reconstruction Technique in Forensic Science. GSA Northeast, Harrisburg, March 18-21, 2006.
71. **Horton, B.P.**, 2006. The application of diatoms, foraminifera and pollen in sea-level research from active and passive coastal margins. Geological Lecture Series, Virginia Institute for Marine Science, April 10, 2006.\*
72. **Horton, B.P.**, 2006. Late Quaternary relative sea-level changes, Outer Banks, North Carolina. East Carolina University Geology Series, January 19, 2006.\*

73. **Horton, B.P.**, Corbett, R., Culver, S.J., Edwards, R.J., and Hillier, C., 2005. Rapid Sea-Level Rise, Outer Banks, North Carolina: A Multiproxy Transfer Function Approach. 2005 AGU Fall Meeting, 5-9 December, 2005.
74. **Horton, B.P.**, Bird, M., Cowie, S., Grundy-Warr, C., Hawkes, A., Hwai, A.T.S., Law, L., Aik, D.L.W., Macgregor, C., Nott, J., Ong, J.E., Rigg, J., Robinson, R., Tan-Mullins, M., Teh, T.S. and Yasin, Z., 2005. Indian Ocean Tsunami – Environmental and Socio-economic impacts on the Malay-Thai Peninsula. GSA Annual meeting 2005, Salt Lake City, October 16-19, 2005.
75. **Horton, B.P.**, Bird, M., Cowie, S., Grundy-Warr, C., Hawkes, A., Hwai, A.T.S., Law, L., Aik, D.L.W., Macgregor, C., Nott, J., Ong, J.E., Rigg, J., Robinson, R., Tan-Mullins, M., Teh, T.S. and Yasin, Z., 2005. Indian Ocean Tsunami – Environmental and Socio-economic impacts on the Malay-Thai Peninsula. Tsunami Deposits and their role in hazard mitigation, Seattle, June 12-15, 2005.
76. **Horton, B.P.** 2005. The use of diatoms in coastal research. Academy of Natural Sciences, April 1, 2005.\*
77. **Horton, B.P.** 2005. Sea-level forensics. The Science Coalition, Penn Club, New York, March 30, 2005.\*
78. **Horton, B.P.** 2005. The application of diatoms, foraminifera and pollen in sea-level research from active and passive coastal margins. Geological Lecture Series, University of Georgia, February 24, 2005.\*
79. **Horton, B.P.**, 2005. The application of diatoms, foraminifera and pollen in sea-level research from active and passive coastal margins. Guest Lecture Series, USGS Woods Hole, February 16, 2005.\*
80. **Horton, B.P.**, 2005. The application of diatoms, foraminifera and pollen in sea-level research from active and passive coastal margins. Geology Colloquium, Rutgers, February 9, 2005.\*
81. **Horton, B.P.**, Gibbard, P. L., Milne, G. M., Stargardt, J. M., Woodroffe, S.W., 2004. Holocene sea levels and palaeoenvironments of the Indo Pacific. British Sedimentological Research Group Annual Meeting, Manchester, December 19-21, 2004.
82. **Horton, B.P.**, 2004. The application of diatoms, foraminifera and pollen in sea-level research from active and passive coastal margins. Guest Lecture Series, University of Delaware, November 16, 2004.\*
83. **Horton, B.P.**, Gibbard, P. L., Milne, G. M., Stargardt, J. M., 2004. Holocene sea levels and palaeoenvironments of the Malay-Thai Peninsula, southeast Asia. GSA Annual Meeting, Denver Colorado, November 7-10, 2004.
84. **Horton, B.P.** and Edwards, R. J., 2004. Quantifying Holocene Sea Level Change Using Intertidal Foraminifera: Lessons from the British Isles. AGU Chapman Salt Marsh Geomorphology: Physical and Ecological Effects on Landform, Halifax, Nova Scotia, October 9-13, 2004.
85. **Horton, B.P.**, Gibbard, P. L., Milne, G. M., Stargardt, J. M., 2004. Holocene sea levels and palaeoenvironments of the Malay-Thai Peninsula, southeast Asia: implications for geophysical modelling. IGCP Project 495, Quaternary Land-Ocean Interactions: Driving Mechanisms and Coastal Responses, Bar Harbor, Maine, October 14th - 17th, 2004
86. **Horton, B.P.** and Shennan, I., 2004. Holocene land- and sea-level changes in Great Britain A Celebration of UK Sea Level Science and Launch of the UK NTSLF, Royal Society, 16-17 February 2004.
87. **Horton, B.P.**, Sawai, and Y. Nagumo, T., 2003. Diatom-based elevation transfer function along the Pacific coast of eastern Hokkaido, northern Japan – an aid in paleo-seismic study along the coasts near Kurile subduction zone. American Geophysical Union 2002 Fall Meeting, San Francisco, USA, 6-10 December 2003.
88. **Horton, B.P.**, 2003. The application of high-resolution techniques to reconstruct sea-level change and coastal evolution from NW Europe, Indo-Pacific and North America Department of Geology Guest Lecture Series, Trinity College Dublin, Ireland, September 29, 2003.

89. **Horton, B.P.**, 2003. Holocene land- and sea-level changes in Great Britain: implications for geophysical models RGS-IBG, London, UK, September 3-5, 2003.
90. **Horton, B.P.** and Shennan, I., 2003. Holocene land- and sea-level changes. The XVI INQUA Congress, Reno, Nevada USA, July 23 - 30, 2003.
91. **Horton, B.P.** and Edwards, R. J., 2003. The application of local and regional transfer functions to reconstruct former sea levels, North Norfolk, England. The XVI INQUA Congress, Reno, Nevada USA, July 23 - 30, 2003.
92. **Horton, B.P.** and Shennan, I., 2003. Holocene land- and sea-level changes in Great Britain: implications for geophysical models. EGS-AGU-EUG Joint Assembly, Nice, France, 6-11 April 2003.
93. **Horton, B.P.**, Hardbatt, M., Woodroffe, S. A., Wright, M. R., 2003. Sea-level changes of the Indo-Pacific: a review. Conservation and Natural Resource Management of Tropical Ecosystems, Kinnersley castle, 1-2 March 2003.
94. **Horton, B.P.** and Shennan, I., 2002. Holocene land- and sea-level changes in Great Britain. American Geophysical Union 2002 Fall Meeting, San Francisco, USA, 6-10 December 2002.
95. **Horton, B.P.**, 2002. Evidence for climate change: Marginal marine records. Probability and Statistics Seminar Series, University of Sheffield, 15 November 2002.
96. **Horton, B.P.**, 2002. The Global Picture-why should we be concerned? United Kingdom Climate Change Working Group: Climate Change Local Action, Teesside, November 2002.
97. **Horton, B.P.** and Edwards, R. J. 2002. The Development and application of a foraminiferal –based transfer function in sea-level studies. International Foraminiferal Symposia, University of Perth, Australia, 4 –12 February 2002.
98. **Horton, B.P.**, Edwards, R. J., Varekamp, J. and Thomas, E., 2001. Late Holocene sea-level changes, North Norfolk, England. International Geological Correlation Programme Project No. 437, University of Durham, 4 –12 September 2001.
99. **Horton, B.P.** and Edwards, R. J., 2001. Environmental modelling and quantitative palaeoenvironmental reconstructions of Holocene sea-level data. Quantitative palaeoclimate and environmental reconstructions: data – model comparisons, European Union of Geosciences, Strasbourg, France, 8 - 12 April 2001.
100. **Horton, B.P.**, 2001. Quantitative palaeoenvironmental reconstructions of Holocene sea-level data, eastern England. Glacial-interglacial sea-level changes in four dimensions, European Science Foundation, Saint Andrews, United Kingdom, 31 March – 5 April 2001.
101. **Horton, B.P.**, 2001. Environmental modelling and sea-level change. Quaternary Research Association Annual Discussion Meeting, National Museums and Galleries of Wales, 3 – 5 January 2001.
102. **Horton, B.P.**, 2000. Relative sea-level changes. High-Resolution Climate Variability of the Holocene, 24th-26th October 2000, Hotel Araxe, Isle-sur-la-Sorgue, Avignon, France.
103. **Horton, B.P.**, 2000. Quantitative palaeoenvironmental reconstruction of Holocene sea-level data, eastern England. The Tenth Annual Conference of Severn Estuary Levels Research Committee, Abergavenny, 23 - 24 September 2000.
104. **Horton, B.P.**, 2000. Modelling Holocene western North Sea palaeogeographies and tidal changes. Geoscience 2000, University of Manchester, 17 April 2000.
105. **Horton, B.P.**, 2000. Modelling relative sea level using a quantitative palaeoenvironmental reconstruction technique. Coastal Geologists' Seminar Series, Free University, Amsterdam, 18 January 2000.

106. **Horton, B.P.**, and Shennan, I. 2000. Modelling western North Sea palaeogeographies and tidal changes during the Holocene. Quaternary Research Association Annual Discussion Meeting, University of Southampton, 6 - 7 January 2000.
107. **Horton, B.P.**, 1999. Implications of environmental modelling and quantitative palaeoenvironmental reconstruction techniques in Holocene sea-level studies. Quaternary Discussion Group, University of Cambridge, 3 December 1999.
108. **Horton, B.P.**, and Shennan, I. 1999. Modelling the depositional regimes of the western North Sea at 1000 year intervals. The non-steady state of the inner shelf and shoreline: coastal change on the timescales of decades to millennia. International Geological Correlation Programme (IGCP) project 437, University of Hawaii, Honolulu, USA, 9-12 November, 1999.
109. **Horton, B.P.**, 1999. Microfossil-based transfer functions: implications for studies of Holocene sea level changes. The environmental background to hominid evolution in Africa. XV INQUA Congress, Durban, South Africa, 3 -11 August 1999.
110. **Horton, B.P.**, 1999. Implications of environmental modelling and quantitative palaeoenvironmental reconstruction techniques in Holocene sea-level studies. Australian Seminar Series, Australian Catholic University, Canberra; Australian Catholic University, Sydney; and James Cook University, Townsville, June 1999.
111. **Horton, B.P.**, 1999. The use of microfossils in sea level studies. Glacial-interglacial sea-level changes in four dimensions, Albufeira, Portugal, 13 - 18 February 1999.
112. **Horton, B.P.**, Edwards, R. J. and Lloyd, J. M., 1999. Implications and applications of a microfossil transfer function in Holocene sea-level studies. Annual Conference of the Royal Geographical Society-Institute of British Geographers, University of Leicester, 5 - 7 January 1999.
113. **Horton, B.P.**, Innes, J. B., Lloyd, J. M., McArthur, J. J. and I. Shennan, 1998. Late Quaternary sea-level changes and crustal movements of the western margin of the North Sea. LOIS Annual Meeting 1998, University of East Anglia, Norwich.
114. **Horton, B.P.**, Edwards, R. J. and Lloyd, J. M., 1998. Reconstruction of former sea levels using a foraminiferal-based transfer function. Coastal and Estuarine Environments, Sedimentology, Geomorphology and Geoarchaeology, Geological Society of London, 9 -10 November 1998.
115. **Horton, B.P.**, 1998. Foraminiferal-based tide level transfer functions as an aid in reconstructing former sea-levels. British Micropalaeontologist Group Meeting, Natural History Museum, London.
116. **Horton, B.P.**, 1997. The contemporary distribution of intertidal foraminifera of Cowpen Marsh, Tees Estuary, UK. LOIS Annual Meeting 1997, University of Hull, Hull.
117. **Horton, B.P.**, 1996. Foraminifera as sea-level indicators in the Holocene. Foraminiferal Group Meeting, British Micropalaeontological Society, Natural History Museum, London.

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